

CLAIMS

What is claimed is:

1. A liquid crystal display comprising:

a panel substantially comprising a subpixel repeating group comprising an even number of subpixels in a row, said subpixel repeating group further comprising a column of dark colored subpixels; and

a driver circuit sending image data and polarity signals to the panel;

wherein any image degradation in the said signals is localized on said column of dark colored subpixels.
2. The liquid crystal display of claim 1 wherein the dark colored subpixels are blue colored subpixels.
3. The liquid crystal display of claim 1 wherein said subpixel repeating group substantially comprises a checkerboard of red and green subpixels interspersed with two columns of blue subpixels.
4. The liquid crystal display of claim 3 wherein said two columns of blue subpixels share a same column driver.
5. The liquid crystal display of claim 1, wherein one or more subpixels receive a correction signal.

6. A liquid crystal display comprising:

a panel substantially comprising a subpixel repeating group comprising an even number of subpixels in a row wherein said group further comprises a column of blue subpixels; and

a driver circuit having at least two phases, the driver circuit sending image data and polarity signals to said panel, wherein phases of the driver circuits are selected such that any parasitic effects placed upon any subpixels are placed substantially upon said column of blue subpixels.

7. The liquid crystal display of claim 6, wherein a correction signal is sent to one or more subpixels.

8. A method of correcting for image degradation in liquid crystal displays, comprising:

arranging subpixels in a subpixel repeating group of a panel comprising an even number of subpixels in a row, said subpixel repeating group further comprising a column of dark colored subpixels; and

providing driver signals to the subpixels in the panel to send image data and polarity signals such that image degradation in the driver signals is localized on the column of dark colored subpixels.

9. The method of claim 8, wherein the column of dark colored subpixels is a column of blue subpixels.

10. The method of claim 8, wherein arranging subpixels in a subpixel repeating group comprises forming a checkerboard of red and green subpixels interspersed with two columns of blue subpixels.

11. The method of claim 10, wherein providing driver signals includes providing signals to the two columns of blue subpixels from the same column driver.

12. The method of claim 8, further comprising:

providing correction signals to one or more subpixels in the group of subpixels.

13. A method of correcting for image degradation in liquid crystal displays, comprising:

arranging subpixels into at least one subpixel repeating group in a panel, the subpixel repeating group comprising an even number of subpixels in a row and at least one column of blue subpixels; and

providing signals for image data and polarity data to the panel with a driver circuit having at least two phases selected such that any parasitic effects placed upon any subpixels are placed substantially upon the at least one column of blue subpixels.

14. The method of claim 13, further comprising providing a correction signal to one or more subpixels.

15. A liquid crystal display, comprising:

means for arranging subpixels in a subpixel repeating group of a panel comprising an even number of subpixels in a row, said subpixel repeating group further comprising a column of dark colored subpixels; and

means for providing driver signals to the subpixels in the panel to send image data and polarity signals such that image degradation in the driver signals is localized on the column of dark colored subpixels.

16. The liquid crystal display of claim 15, wherein the column of dark colored subpixels is a column of blue subpixels.

17. The liquid crystal display of claim 15, wherein the means for arranging subpixels in a subpixel repeating group comprises means for forming a checkerboard of red and green subpixels interspersed with two columns of blue subpixels.

18. The liquid crystal display of claim 17, wherein means for providing driver signals includes means for providing signals to the two columns of blue subpixels from the same column driver.

19. The liquid crystal display of claim 15, further comprising:

means for providing correction signals to one or more subpixels in the group of subpixels.

20. A liquid crystal display, comprising:

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

means for arranging subpixels into at least one subpixel repeating group in a panel, the subpixel repeating group comprising an even number of subpixels in a row and at least one column of blue subpixels; and

means for providing signals for image data and polarity data to the panel with a driver circuit having at least two phases selected such that any parasitic effects placed upon any subpixels are placed substantially upon the at least one column of blue subpixels.

21. The liquid crystal display of claim 20, further comprising providing a correction signal to one or more subpixels.